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		ntional Laboratory otron Light Source		Number: LS-PPS-0027 Effective:	Revision: A Page 1 of 3
Subj	ect: X14B Radiological Inter	rlock Test		6/14/02	
Prep	pared/ M. Buckley roved By:	Approved By: S.Buda	a		
*Appr	oval signatures on file with master copy.				
				Revisior	/Periodic Review Log
Test Reason:			Test Result:	□ Passed	☐ Failed
Т	4 Data		Test Type: Start Time:	□ Full	☐ Partial
	et Date: eter 1:		Assistant 1:	Finish	Time:
	eter 2:		Assistant 1:		
	eparation:		Assistant 2.		
	rify that vacuum valves and wat ase I beamlines or connect user Place latch device on door lo Search hutch, put door key in	interlock test jumper. ck so key can be remo	oved. Place swoen safety shutt	itch holders on do	
					Hutoh
	Remove holder from switch	2		Тор	Hutch Bottom
	remove norder from switch	RIB latch light co	mes ON	100	200011
		Č			
2.	Replace holder on switch 2.	DID	1 COD 1	:	
		RIB cannot be resturned.	set uniess SOR	ey is	
3.	Remove holder on switch 1.				
		Safety shutter clo			
		RIA latch light co			
		RIA can't be reset	: w/o SOR		
4.	Replace holder on switch 1.	Interlock hutch, leave Hutch Kirk key (I unless button is p	KKH) cannot be		RU
5.	Open safety shutter.	KKH cannot be t	removed even it	f button is pushed	
		TELLI CUIIIOI OCI	21110 , 00 0 , 0011 11	. Jacon is pusited	·
6.	Close shutters. Turn KKH at key just beyond this point, but and leave key in this position	at not far enough to ac	ctuate "key remove KKH, and resorted on the contract on the contract on the contract of the co	oved" switch. Re	

7.	With hutch interlocked, leave shutter closed.					
	,	Beam line transfer key can be removed only if				
		button on SRU is pushed				
	Open safety shutter.					
	open surety snutter.	Beam line transfer key can't be removed even if				
		button is pushed				
	Close safety shutter. "Cheat" SRU as described in step 6. Open safety shutter, remove the					
•	key and replace.					
		RIA latch light comes on				
		RIB latch light comes on				
		The safety shutter closes				
		SPA comes on				
		SPA can't be reset w/o SOR				
	Reset RIA and RIB	_				
€.	Open the safety shutter. Remove the Coreplace the key.	ontrol Room Shutter Enable Key for this beam line, the				
		The safety shutter closes				
		RIA latch light comes on				
		The "Control Room Shutter Enable" light goes out				
		The SPA latch comes on (after the key is back on)				
		The safety shutter cannot be opened				
	Reset RIA and SPA	_				
10.	Open the Safety Shutter. Turn "Auto Open" key to "ON". At the Control Room Operator's Console, switch the shutter master enable to "Inhibit" and					
	back to "Enable"					
		The safety shutter closes				
		And then re-opens				
	Turn "Auto Open" key to "OFF".					
	Switch the master enable to "Inhibit" an	d back to "Enable"				
		The safety shutter closes				
		And does NOT re-open				
						

X14BRadiological Interlock TestRevision:AEffective: 6/14/0

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Number:

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11.	One person goes to the x-ray equipment area and resets the indicators for RIAX and RIBX at SR100. Open the safety shutter. Remove switch holder from door switch number 2.							
			RIB latch light co RIBX "Loop Enal RIBX "Loop Disa	oled" indicator		n		
	Replace switch holder.		RIBX cannot be r	eset				
	Reset RIB		RIBX CAN be rec ("Loop Enabled"		s on)			
12.	Remove holder from do	oor switch 1.	RIA latch light co RIAX "Loop Ena RIAX "Loop Disa The safety shutter	bled" indicator abled" indicator closes	_			
	Reset RIA		RIAX cannot be r RIAX CAN be re ("Loop Enabled"	set	s on)			
13.	Remove the holders from the switches. Remove the latch device from the door lock inside the hutch and open and close the door. Both door switches operate freely and each makes when door is opened							
			(Complete	test for both door	switches)	Тор	Bottom	
14.	Search the hutch. Locate the safety shutter associated with the beam line by tracing the beam pip through the shield wall. Do not rely on labels on the shutter mechanism. Open the shutter.						m pipe	
The correct shutter opens No other shutter at that saw tooth opens or attempts to open Close the safety shutter.								
	crose the safety shatter		n moves freely and v	without hesitation	on			
15.	Remove user interlock	test jumper (if a	applicable).					
			* * *					

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